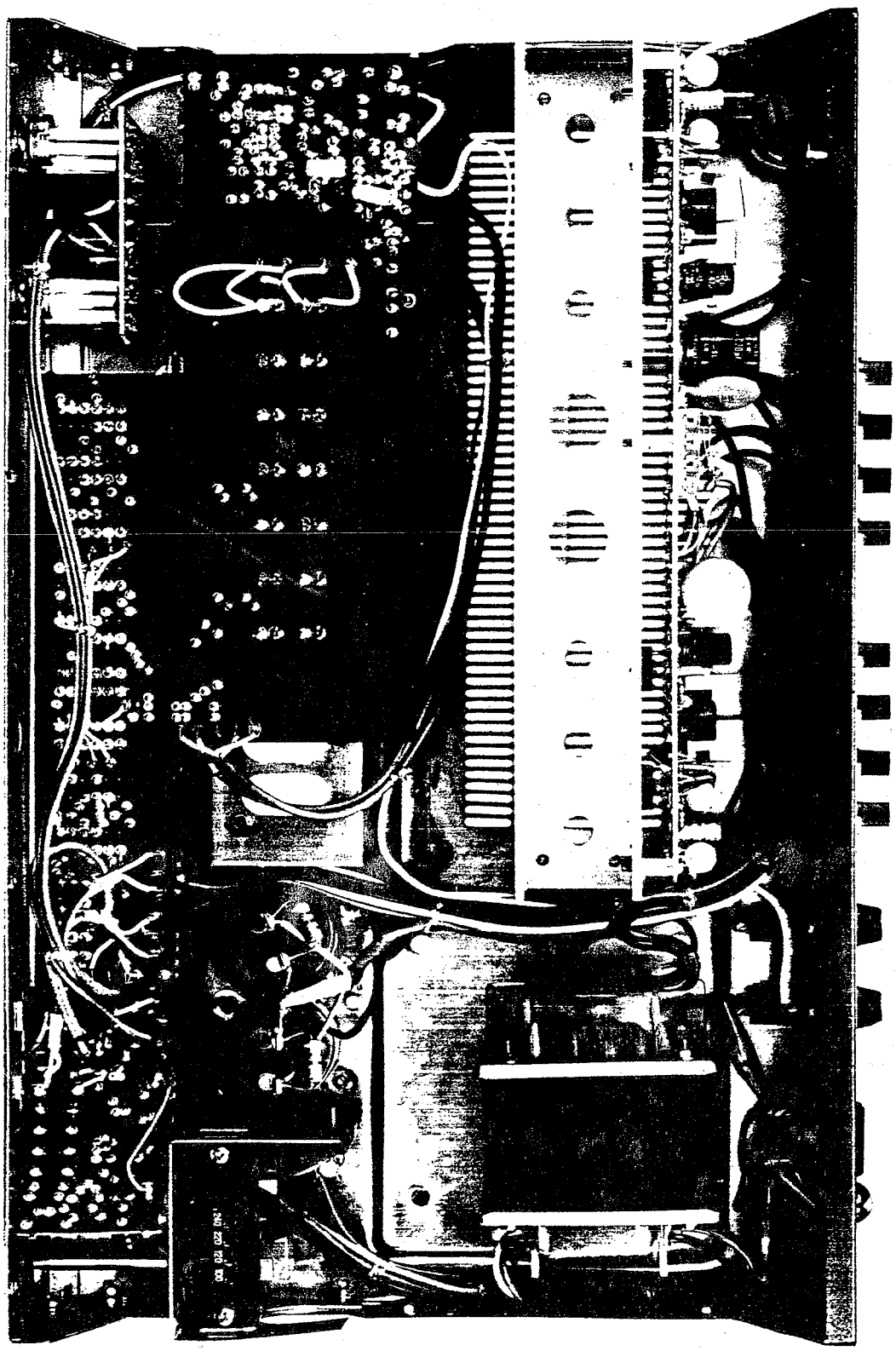
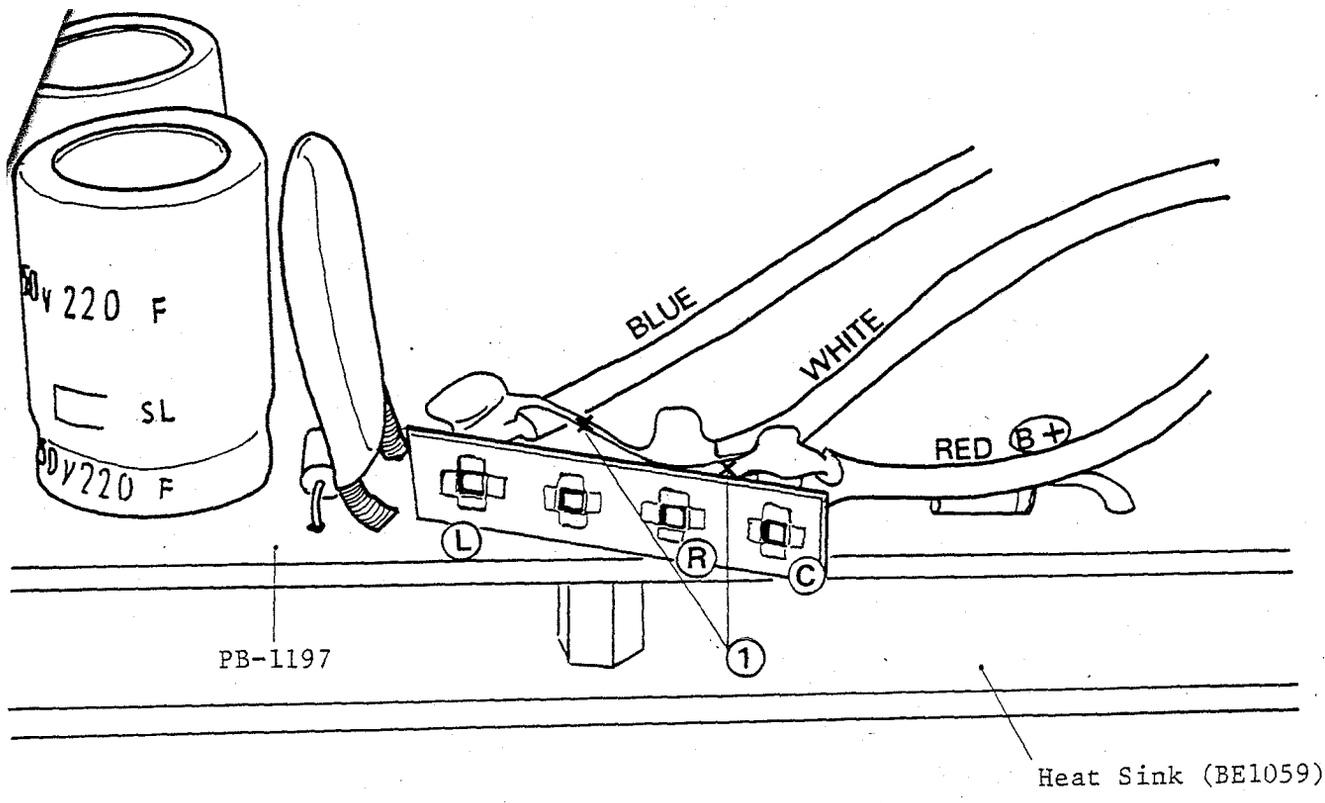
SERVICE MANUAL

SOLID STATE STEREO INTEGRATED AMPLIFIER L-3

INTERNAL VIEW

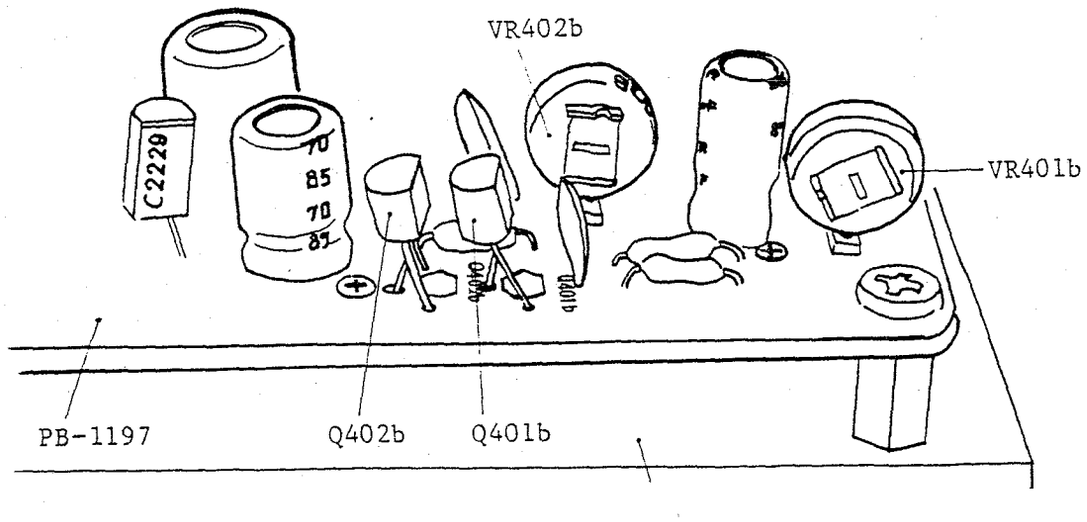


GNMENT PROCEDURE



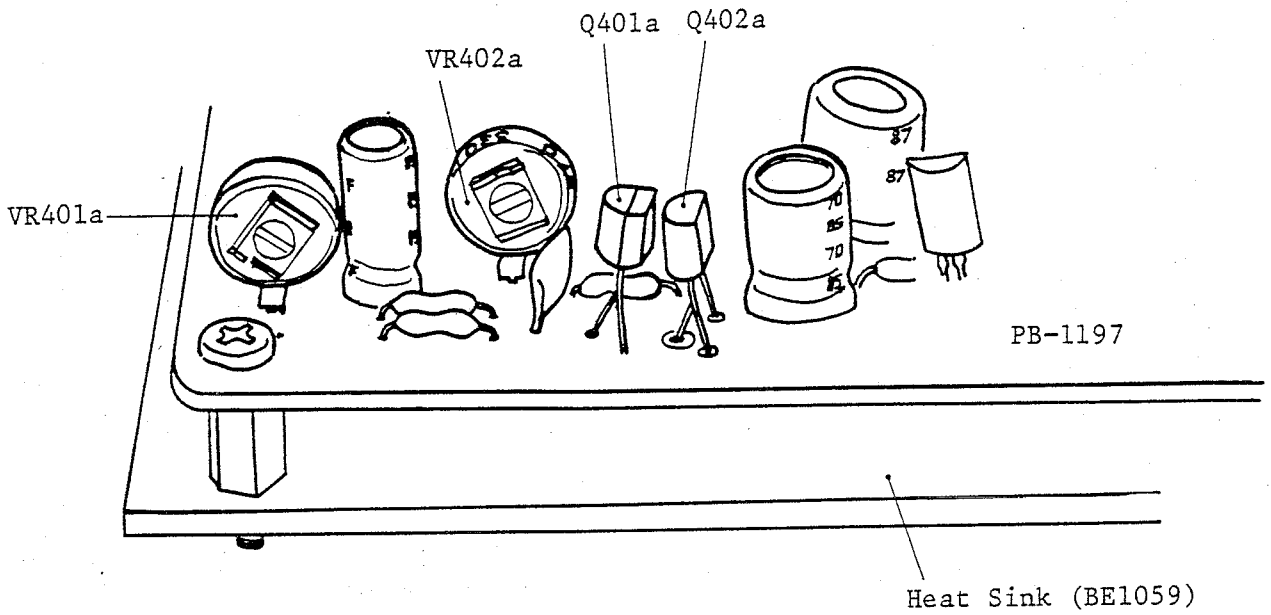
Idle Adjustment

(1) Cut the jumper lead, as described in the illustration.
(2) Connect a resistor 10 ohms 1W across (L) and (C). Connect a DC amperemeter(full scale 250 - 300mA) between (R) and (C). (polarization: (C) ⊕) Adjust VR402b to obtain 50mA reading on the meter. (R-ch idle adjust)
(3) Disconnect the lead of the resistor connected to (L), and connect it to (R), leaving the lead connected to (C) as it is. Connect a DC amperemeter between (L) and (C). (polarization: (C) ⊕) Adjust VR402a to obtain 50mA reading on the meter. (L-ch idle adjust)
(4) Connect (C) - (R), and (R) - (L) again by use of jumper leads.
(5) This adjustment should be done 1 minute after turning the power on.

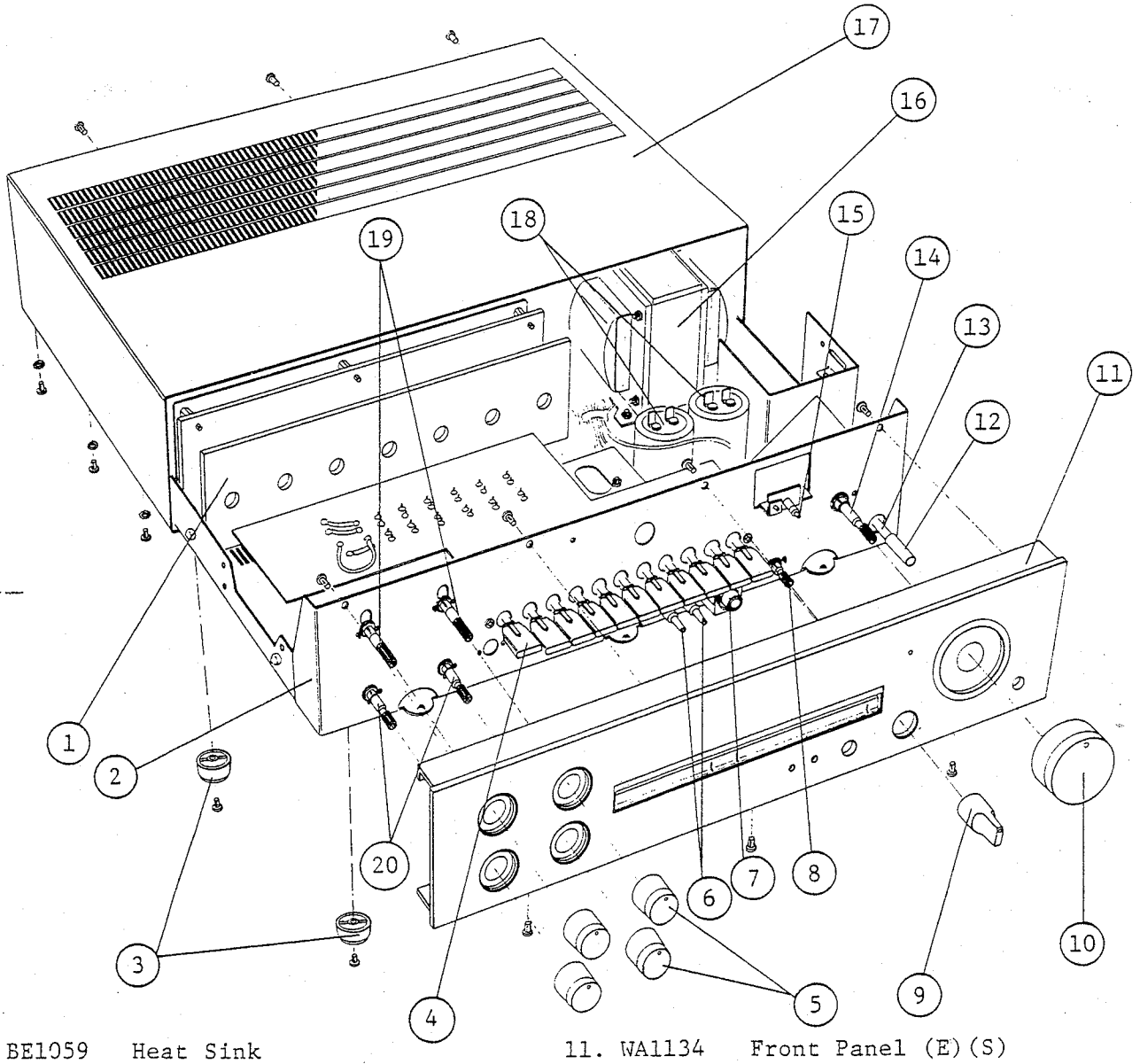


DC Offset Adjustment

(1) Connect a DC voltmeter (full scale 100 - 300mV) to the speaker terminals on the rear panel.
(2) Adjust VR401a (L-ch) and VR401b (R-ch) respectively to obtain 0V reading on the meter.
(3) This adjustment should be done 1 minute after turning the power on.



EXPLODED VIEW



1. BE1059 Heat Sink
2. UB1048 Sub Panel
3. WN0007 Leg
4. WJ1106 Mould Knob
5. WH1074 Knob Set (tone cont.)(E)(S)
   WH1080 Knob Set (tone cont.)(U)
6. WJ1107 Mould Knob (sp. select.)
7. AJ0014 Headphone Jack
8. RV0205 Volume 250k-MN (balance)
9. WH1079 Knob Set (balance) (U)
   WH1047 Knob Set (balance) (E)(S)
10. WH1081 Knob Set (volume) (U)
    WH1073 Knob Set (volume) (E)(S)
11. WA1134 Front Panel (E)(S)
    WA1142 Front Panel (U)
12. WJ1089 Mould Knob (power)
13. SP0063 Push Switch (power)
    SP0090 Push Switch (power) (E)(S)
14. RV0204 Volume 200k-B
15. TD0096 LED, SLC25UR (red)
16. PT2250 Power Trans. (E)
    PT2251 Power Trans. (S)
    PT2271 Power Trans. (U)
17. UG1010 Bonnet (E)(S)
    UG1015 Bonnet (U)
18. CE1430 Electrolytic 6800uF 50V
19. RV0206 Treble Cont. 50k-B
20. RV0207 Bass Cont. 100k-B

REMARKS

Capacitors: C.....ceramic, E.....electrolytic, M.....mylar, G.....G capacitor
S.....styrol, T.....tantalum, Mi....mica, MP....MP capacitor
O.....oil capacitor, TRIM.....trimmer capacitor, AC....AC capacitor
BP....electrolytic Bi-Polar type

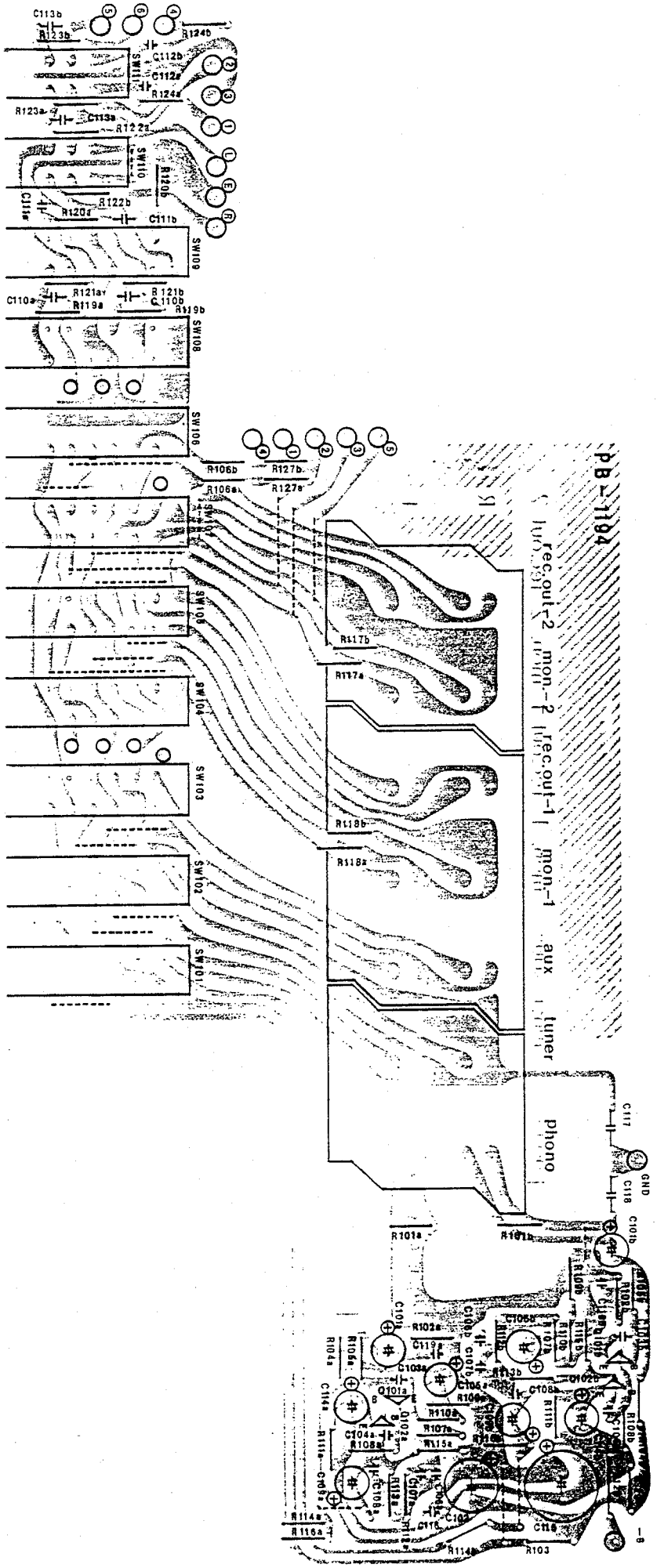
Resistors: ±5%, 1/4W, unless specified otherwise

Type: (S)..... model for north European countries
(U)..... model for U.S.A. and CANADA
(J)..... model for JAPAN

PB1194

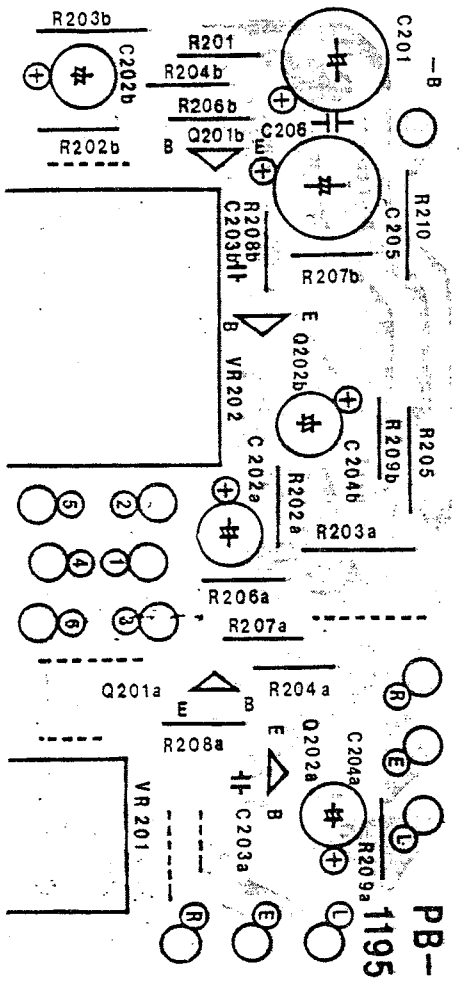
SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
R101ab	RB0224	56K	
102ab	246	470K	
103	210	15K	
104ab	254	1M	
105ab	182	1K	
106ab	234	150K (E)(S)	
107ab	174	470	
108ab	230	100K	
109ab	222	47K	
110ab	180	820	
111ab	184	1.2K	
112ab	220	39K	
113ab	252	820K	
114ab	174	470	
115ab	204	8.2K	
116ab	242	330K	
117ab	254	1M	
118ab	254	1M	
119ab	254	1M	
120ab	254	1M	
121ab	202	6.8K	
122ab	202	"	
123ab	208	12K	
124ab	216	27K	
125	RS1078	680 1/4 F	
126	RB0220	39K	
127ab	234	150K (E)(S)	
Q101ab	TR0125	2SA836 E	
102ab	TR0025	2SC1345 E	
C101ab	CE0173	3.3μ 25V E	
102	CE0079	220μ 16V E	
103ab	CC0008	150P 50V C	
104ab	CC0003	4.7P 50V C	
105ab	CE0074	10μ 16V E	
106ab	CQ0130	1000P 50V M	
107ab	CQ0130	1000P 50V M	
108ab	CQ0122	6800P 50V M	

SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
109ab	CE0189	0.47μ 50V E	
110ab	CQ0121	0.12μ 50V M	
111ab	CQ0330	3300P 50V M	
112ab	CC0011	470P 50V C	
113ab	CQ0031	0.033 50V M	
114ab	CE0068	47μ 10V E	
115	CE0103	100μ 50V E	
116	CK0145	0.022μ 50V C	
117	CK0159	0.1μF 25V C	
118	CK0159	0.1μF 25V C	
119ab	CC0005	33P 50V C	
SW101	SP0106	Push SW 11key	
102	"	"	
103	"	"	
104	"	"	
105	"	"	
106	"	"	
107	"	"	
108	"	"	
109	"	"	
110	"	"	
111	"	"	


PB-1194
tuner
aux
mon-1
rec.out-1
mon-2
rec.out-2
phono
GND

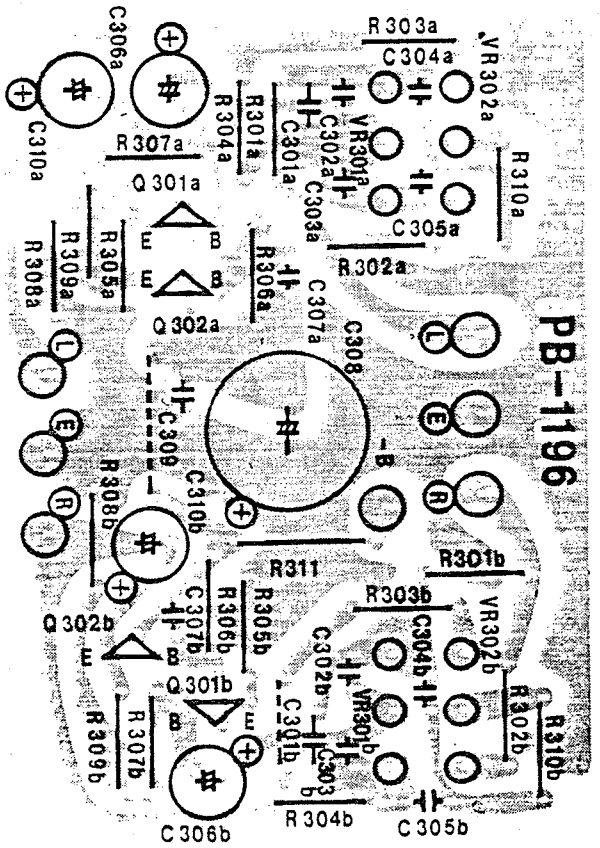
PB1195A

SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
R201	RB0218	33K	
202ab	RB0246	470K	
203	RD0004	1M 1/4	
204	RB0190	2.2K	
205	RD0022	47K 1/4	
206	RB0182	1K	
207	RB0214	22K	
208	RB0198	4.7K	
209	RB0242	330K	
210	RS1092	2.2K F 1/4	
C201	CE0078	100µ 16V E	
202ab	CE0183	1µ 50V E	
203ab	CC0037	5P 25V C	
204ab	CE0173	3.3µ 25V E	
205	CE0095	100µ 35V E	
206	CK0145	0.022µ 50V C	
Q201ab	TR0125	2SA836 E	
202ab	TR0025	C1345 E	
VR201	RV0205	250K MN	
202	RV0204	200K B	



PB1196

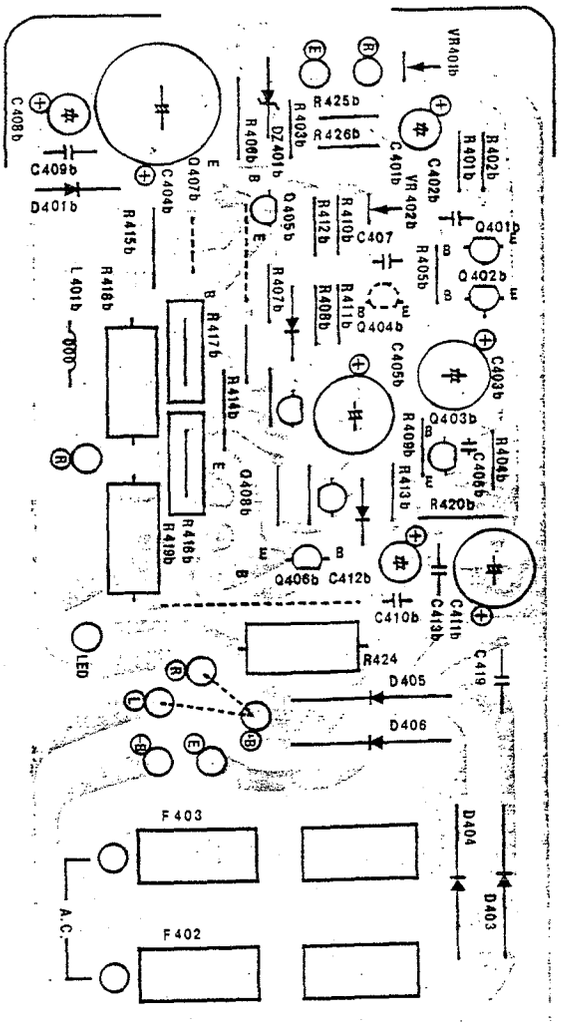
SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
R301ab	RB0212	18K	
302ab	186	1.5K	
303ab	186	1.5K	
304ab	212	18K	
305ab	190	2.2K	
306ab	220	39K	
307ab	244	390K	
308ab	182	1K	
309ab	200	5.6K	
310ab	188	1.8K	
311	RS1094	3.3K F 1/4	
C301ab	CQ0124	0.022µ 50V M	
302ab	CQ0130	1000P 50V M	
303ab	CQ0130	1000P 50V M	
304ab	CQ0334	1800P 50V M	
305ab	CQ0334	1800P 50V M	
306ab	CE0173	3.3µ 25V E	
307ab	CC0012	10P 25V C	
308	CE0096	220µ 35V E	
309	CK0145	0.022µ 50V C	
310ab	CE0173	3.3µ 25V E	
Q301ab	TR0125	A836 E	
302ab	TR0125	A836 E	
VR301ab	RV0207	100KB	
302ab	RV0206	50KB	



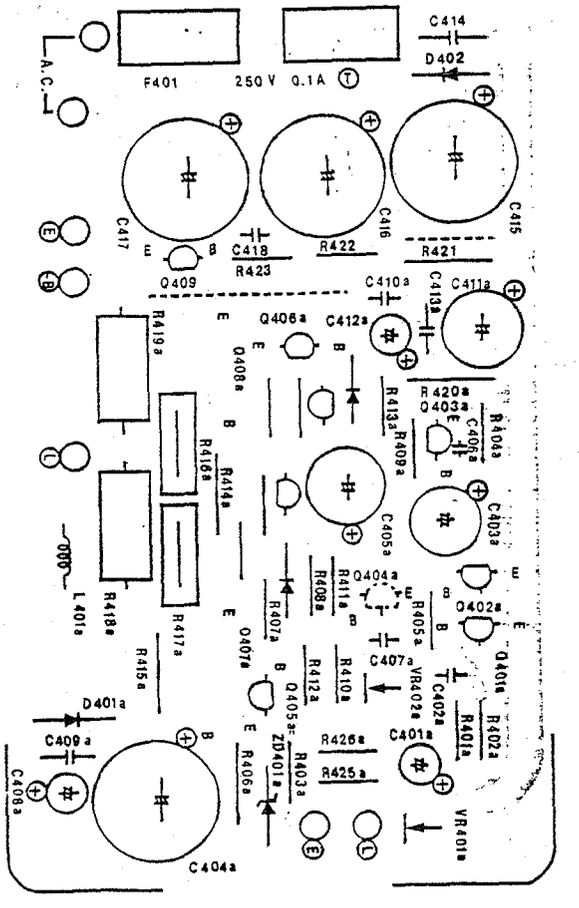
PB1197

SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
R401ab	RB0194	3.3K	
402ab	RB0214	22K	
403ab	RB0202	6.8K	
404ab	RB0176	560	
405ab	RB0180	820	
406ab	RD0129	1.5K 1/2	
407ab	RB0188	1.8K	
408ab	RB0196	3.9K	
409ab	RB0214	22K	
410ab	RB0178	680	
411ab	RB0188	1.8K	
412ab	RB0150	47	
413ab	RB0150	47	
414ab	RS0074	100 1/2 F	
415ab	RS0074	100 1/2 F	
416ab	RG0009	0.33	
417ab	RG0009	0.33	
418ab	RD0158	10 1W	
419ab	RS2709	10 1W F	
420ab	RS0074	100 1/2 F	
421	RS0074	100 1/2 F	
422	RB0206	10K	
423	RB0182	1K	
424	RD0150	4.7K 1W	
425ab	RB0242	330K	
426ab	RB0150	47	
R001	RD0150	4.7K 1W	
002	RD0150	4.7K 1W	
L401ab		LUX1004-2 MH	
F401	BF0201	Fuse 0.1A (T) (S)	
	BF0074	Fuse 0.5A (U)	
	BF0111	Fuse 0.5A (E)	
C401ab	CE0173	3.3µ 25V E	
402ab	CC0009	220P 50V C	
403ab	CE0077	47µ 16V E	
404ab	CE0146	220µ 50V E	
405ab	CE0094	47µ 35V E	
406ab	CC0005	33P 50V C	
407ab	CK0157	0.04µ 25V C	
408ab	CE0098	1µ 50V E	
409ab	CK0146	0.04µ 50V C	
410ab	CQ0332	0.039µ 50V M	
411ab	CE0102	47µ 50V E	
412ab	CE0098	1µ 50V E	
413ab	CK0146	0.04µ 50V C	
VR401ab	RT0026	Semifix 4.7K-B	
VR402ab	RT0013	" 330Ω-B	

SYMBOL NO.	STOCK NO.	DESCRIPTION	LOCATION
C414	CU0012	0.01µ 125V C	
415	CE0146	220µ 50V E	
416	CE0146	220µ 50V E	
417	CE0146	220µ 50V E	
418	CC0007	100P 50V C	
419	CU0012	0.01µ 125V C	
Q401ab	TR0193	A942 RAKK	
402ab	TR0193	A942 RAKK	
403ab	TR0236	C2229	
404ab	TR0146	C1740	
405ab	TR0264	C2235	
406ab	TR0263	A965	
407ab	TR0262	D716	
408ab	TR0261	B686	
409	TR0125	A836	
D401ab	TD0002	1N4002	
402ab	TD0003	1N4003	
403	TD0106	S3V40	
〃	〃	〃	
406	〃	〃	
DZ401 ab	TD0065	WZ192	
	UC1092	Rear Panel U	
	UC1093	〃 S	
	UC1096	〃 E	
	UC1122	〃 UC	
	UB1048	Sub Panel	
SW001	SP0063	Push SW U	
	SP0090	〃 E.J.S	
SW502 ab	SP0107	Push SW 2key	
	AS0002	DIN CONNE. (E.S)	
	AH0016	1P Fuse Holder E.J.U	
	AH0019	1P Fuse Holder S	
F001	BF0079	3A U	
	BF0014	1.5A EK	
	BF0117	3A EZ.J	
	BF0208	1AT 250V S	
	PT2250	P2250 Power Trans E	
	PT2251	P2251 S	
	PT2271	P2271 U	
R003	RD0339	560Ω 1W	
R004	〃	〃	
C001	CE1430	6800µF 50V E	
C002	〃	6800µF 50V E	



CAUTION:REPLACE WITH SAME TYPE FUSE.
ATTENTION: REMPLACER PAR UN
FUSIBLE DU MEME TYPE.



C1740 (TR0146)

Absolute Maximum Ratings (Ta = 25°C)

SYMBOL	RATING	UNIT
V_{CBO}	50	V
V_{CEO}	40	V
V_{EBO}	5	V
I_C	100	mA
P_C	300	mW
T_j	125	°C
T_{stg}	-55 - 125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
BV_{CEO}	I_C=1mA	40	-	-	V
BV_{CBO}	I_C=50uA	50	-	-	V
BV_{EBO}	I_E=50uA	5	-	-	V
I_{CBO}	V_{CB}=30V	-	-	0.5	μA
I_{EBO}	V_{EB}=4V	-	-	0.5	μA
$V_{CE(sat)}$	I_C/I_B=50mA/5mA	-	-	0.4	V
h_{FE}	V_{CE}/I_C=6V/1mA	120	-	560	-
f_T	V_{CE}=12V, I_E=-2mA	-	180	-	MHz
C_{ob}	V_{CB}=12V, I_E=0, f=1MHz	-	2.0	3.5	pF

2SA942RAKK (TR0193)

Absolute Maximum Ratings (Ta =25°C)

SYMBOL	RATING	UNIT
V_{CBO}	-90	V
V_{CEO}	-90	V
V_{EBO}	-5	V
I_C	-50	mA
I_E	50	mA
P_C	300	mW
T_j	125	°C
T_{stg}	-55 - 125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 ±15°C)

SYMBOL	CONDITION	MIN.	MAX.	UNIT
I_{CBO}	V_{CB}=-90V, I_E=0	-	-0.1	μA
I_{EBO}	V_{EB}=-5V, I_C=0	-	-0.1	μA
h_{FE}	V_{CE}=-6V, I_C=-2mA	280	700	-
$V_{CE(sat)}$	I_C=-10mA, I_B=-1mA	-	-0.4	V
C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	5.0	pF
NF	V_{CE}=-6V, I_C=-0.1mA R_g=10k ohms, f=100Hz	-	6.0	dB

2SB686/2SD716(TR0261/TR0262)

Type No.	V_{CEO}(V)	I_C(A)	P_C(W)	h_{FE}	V_{CE}(V)	I_C(A)	$V_{CE(sat)}$ MAX (V)	I_C(A)	I_B(A)	f_T TYP. (MHz)
2SB686 /2SD716	100	6	60	55 - 160	5	1	2.0	4	0.4	10/12

2SA836(TR0125), 2SC1345(TR0025)

Type No.	V_{CEO} (V)	I_C (mA)	P_C (mW)	h_{FE}	f_T (MHz)	Condition V_{CE}(V)	Condition I_C(mA)	NF (dB)	Condition V_{CE}(V)	Condition I_C(mA)	Condition f(Hz)
2SA836	-55	-100	200	160 to 800	200	-12	-2	1	-6	-0.1	1k
2SC1345	50	100	200	250 to 1200	230	12	2	1	6	0.1	1k

2SA965 (TR0263)

Absolute Maximum Ratings (Ta = 25°C)

SYMBOL	RATING	UNIT
V_{CBO}	-120	V
V_{CEO}	-120	V
V_{EBO}	-5	V
I_C	-800	mA
I_E	800	mA
P_C	900	mW
T_j	150	°C
$T_{stg.}$	-55-150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
I_{CBO}	V_{OB}=-120V, I_E=0	-	-	-100	nA
I_{EBO}	V_{EB}=-5V, I_C=0	-	-	-100	nA
$V_{(BR)CEO}$	I_C=-10mA, I_B=0	-120	-	-	V
$V_{(BR)EBO}$	I_E=-1mA, I_C=0	-5	-	-	V
h_{FE}	V_{CE}=-5V, I_C=-100mA	80	-	240	
$V_{CE(sat)}$	I_C=-500mA, I_B=-50mA	-	-	-1.0	V
V_{BE}	V_{CE}=-5V, I_C=-500mA	-	-	-1.0	V
f_T	V_{CE}=-5V, I_E=-100mA	-	120	-	MHz
C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	-	30	pF

2SC2235 (TR0264)

Absolute Maximum Ratings (Ta = 25°C)

SYMBOL	RATING	UNIT
V_{CBO}	120	V
V_{CEO}	120	V
V_{EBO}	5	V
I_C	800	mA
I_E	800	mA
P_C	900	mW
T_j	150	°C
T_{stg}	-55 - 150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V_{CBO}	V_{CB}=120V, I_E=0	-	-	100	nA
I_{EBO}	V_{EB}=5V, I_C=0	-	-	100	nA
$V_{(BR)CEO}$	I_C=10mA, I_B=0	120	-	-	V
$V_{(BR)EBO}$	I_E=1mA, I_C=0	5	-	-	V
h_{FE}	V_{CE}=5V, I_C=100mA	80	-	240	
$V_{CE(sat)}$	I_C=500mA, I_B=50mA	-	-	1.0	V
V_{BE}	V_{CE}=5V, I_C=500mA	-	-	1.0	V
f_T	V_{CE}=5V, I_E=100mA	-	120	-	MHz
C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	-	30	pF

2SC2229 (TR0236)

Absolute Maximum Ratings (Ta=25°C)

SYMBOL	RATINGS	UNIT
V_{CBO}	200	V
V_{CEO}	150	V
V_{EBO}	5	V
I_C	50	mA
I_E	-50	mA
P_C	800	mW
T_j	150	°C
T_{stg}	-55 - 150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
I_{CBO}	V_{CB}=200V, I_E=0	-	-	0.1	μA
I_{EBO}	V_{EB}=5V, I_C=0	-	-	0.1	μA
h_{FE}	V_{CE}=6V, I_C=10mA	70	-	240	
$V_{CE(sat)}$	I_C=10mA, I_B=1mA	-	-	0.5	V
$V_{BE(sat)}$	I_C=10mA, I_B=1mA	-	-	1	V
f_T	V_{CE}=30V, I_E=-10mA	-	120	-	MHz
C_{ob}	V_{CE}=10V, I_E=0, f=1MHz	-	3.5	5	pF

Silicon Rectifier Diode
S3V40(TD0106)

I_O (A)	V_{RM} (V)	I_{FSM} (A)	P_{RSM} (W)	T_j (°C)	V_F (V) MAX.	I_R (μA) MAX. at V_{RM}	V_z (V) MIN.
3.5	400	120	---	+150	1.05	5	---

Zener Diode
WZ-192(TD0065)

ZENER VOLTAGE VZ(V)			OPERATING RESISTANCE Rd(Ω)		REVERSE CURRENT IR(μA)	
MIN.	MAX.	@IZ(mA)	MAX.	@IZ(mA)	MAX.	@VR(V)
18.4	20.1	5	20	5	1	16

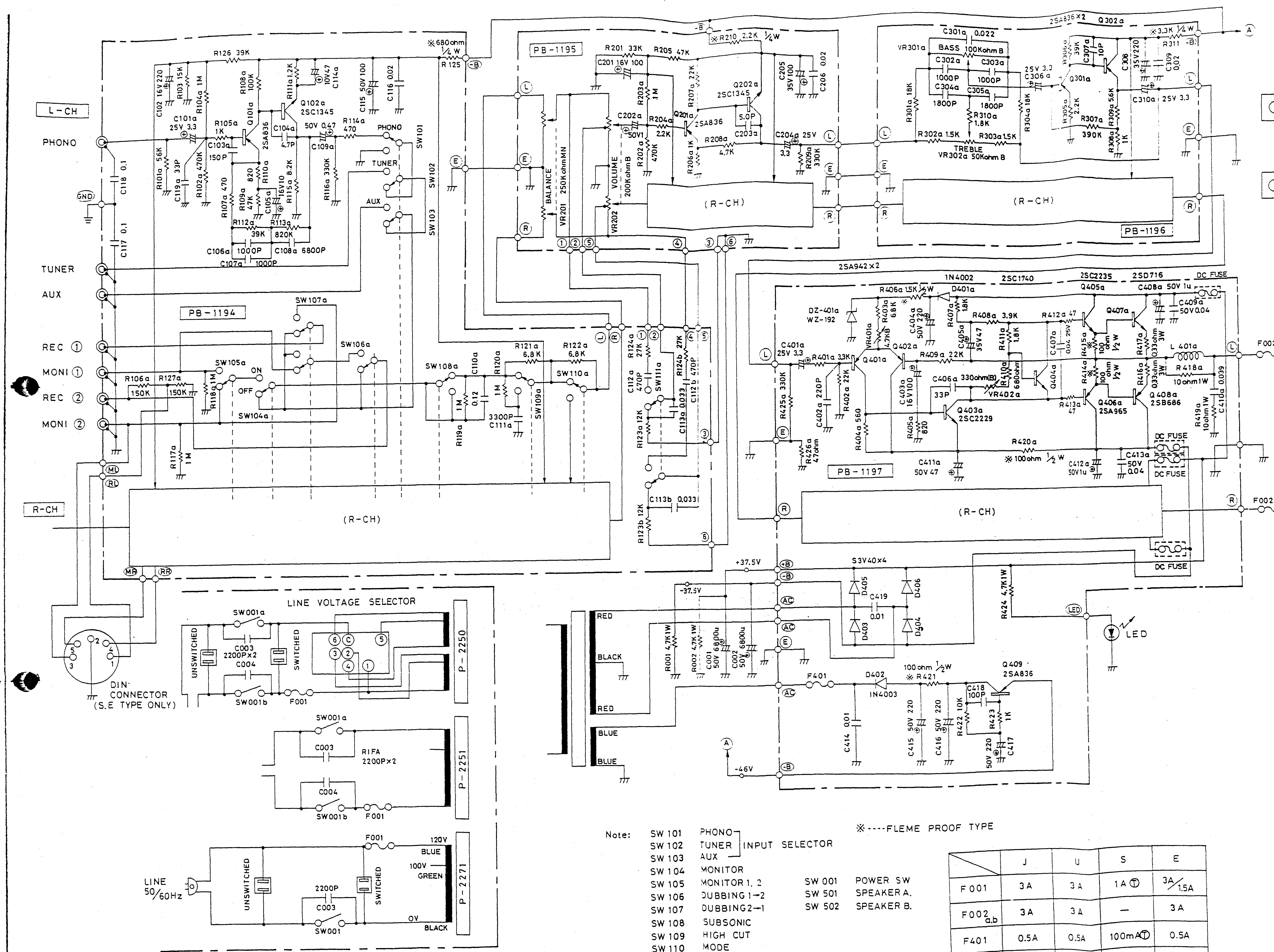
Silicon Rectifier Diodes
1N4002/1N4003(TD0002/TD0003)

	1N4002	1N4003	UNIT
Maximum Peak Reverse Voltage	100	200	V
Maximum Input Voltage(RMS)	70	140	V
Maximum DC Reverse Voltage	100	200	V
Maximum Output Current(ave.)	1.0		A
Surge Current	30		A
Maximum Forward Voltage Drop	1.1		V
Maximum Full-Load Reverse Current	30		μA
DC Reverse Current	5.0(25°C),50.0(75°C)		μA
Reverse Recovery Time	20		μS
Capacitance	15		pF
Thermal Resistance	50		°C/W
Operating Temperature	-65 ~ +175		°C
Storage Temperature	-65 ~ +175		°C

L-3 SPECIFICATIONS

Power Output:	35 watts minimum continuous per channel both channels driven into 8-ohm loads at any frequency from 20Hz to 20,000Hz with no more than 0.04% total harmonic distortion.		
Rated I.M.:	no more than 0.08% (8 ohms, 35W/ch, 60Hz : 7kHz = 4 : 1)		
Frequency Response:	15Hz ~ 60kHz (within −1dB)		
Input Sensitivity & Input Impedance:	PHONO	2.5 mV	50k ohms
	TUNER	145mV	50k ohms
	AUX	145mV	50k ohms
	MONITOR-1	145mV	50k ohms
	MONITOR-2	145mV	50k ohms
Signal-to-Noise Ratio: (input short-circuited)	PHONO	better than 84dB (IHF-A weighted, 10mV)	
	TUNER	better than 90dB (IHF-A weighted)	
	AUX	better than 90dB (IHF-A weighted)	
	MONITOR-1	better than 90dB (IHF-A weighted)	
	MONITOR-2	better than 90dB (IHF-A weighted)	
Residual Noise:	no more than 1mV		
Tone Control:	LUX NF type (100Hz ±11dB, 10kHz ±10dB)		
Filter:	Hign Cut	7kHz (−6dB/oct.)	
	Subsonic	25Hz (−6dB/oct.)	
Channel Separation:	PHONO	better than 60dB	
	AUX	better than 70dB	
Additional Features:	Tape Monitor (dual), Tape Dubbing (dual), Loudness Control, Mode Selector, Speaker Selector (A, B, A+B, OFF), Extra AC Outlets (SWITCHED, UNSWITCHED), DIN Connector (E-type, S-type only)		
Dimensions:	438(W) x 289(D) x 105(H) (17-1/4" x 11-3/8" x 4-1/8") (including Legs, Rear Protrusions and Knobs)		
Weight:	Net	8.0kgs (17.6 lbs.)	
	Gross	9.5kgs (20.9 lbs.)	

Specifications and appearance design subject to change without notice.


L-CH
PHONO
GND
TUNER
AUX
REC ①
MONI ①
REC ②
MONI ②
R-CH
(R-CH)
PB-1194
PB-1195
PB-1196
PB-1197
PB-1205
R126 39K
※680ohm 1/4 W
R125
C102 16V 220
R103 15K
R104a 1M
R108a 100K
R111a 1.2K
10V47 C114a
C115 50V 100
C116 0.02
Q102a 2SC1345
Q101a 2SA836
C101a 25V 3.3
R105a 1K
C103a 150P
C104a 4.7P
50V 0.47 C109a
R114a 470
R101a 56K
C119a 33P
R102a 470K
R107a 470
R109a 47K
R110a 820
C105a 16V10
R115a 8.2K
R116a 330K
R112a 39K
R113a 820K
C106a 1000P
C107a 1000P
C108a 6800P
C118 0.1
C117 0.1
SW101
SW102
SW103
SW104a
SW105a
SW106a
SW107a
SW108a
SW109a
SW110a
SW111a
ON
OFF
R106a 150K
R127a 150K
R118a 1M
R117a 1M
R119a 1M
C110a 0.12
R120a 1M
C111a 3300P
R121a 6.8K
R122a 6.8K
R124a 27K
C112a 470P
R124b 27K
C112b 470P
C113a 0.033
R123a 12K
C113b 0.033
R123b 12K
ML RL MR RR
DIN CONNECTOR (S.E TYPE ONLY)
R201 33K
R205 47K
C201 16V 100
※R210 2.2K 1/4W
R203a 1M
R207a 22K
Q202a 2SC1345
Q201a 2SA836
C202a 50V1
R204a 2.2K
R202a 470K
R206a 1K
R208a 4.7K
C203a 5.0P
C204a 25V 3.3
R209a 330K
C205 35V100
C206 0.02
BALANCE VR201 250Kohm MN
VOLUME 200Kohm B VR202
C301a 0.022
BASS 100Kohm B VR301a
C302a 1000P
C303a 1000P
C304a 1800P
C305a 1800P
R301a 18K
R310a 1.8K
R302a 1.5K
R303a 1.5K
TREBLE VR302a 50Kohm B
R304a 18K
2SA836×2
Q301a
Q302a
25V 3.3 C306a
R306a 39K
C307a 10P
R305a 2.2K
R307a 390K
R309a 5.6K
R308a 1K
C308 35V220
C309 0.02
C310a 25V 3.3
※3.3K 1/4W R311
(L) (R) A SPEAKER
B SPEAKER
2SA942×2
1N4002
2SC1740
2SC2235
2SD716
DC FUSE
R406a 1.5K 1/4W
D401a
DZ-401a WZ-192
R403a 6.8K
VR401a 4.7KB
C404a 50V 220
R407a 1.8K
R408a 3.9K
R412a 47
Q405a
Q407a
C408a 50V 1u
C409a 50V 0.04
C401a 25V 3.3
R401a 3.3K
Q401a
Q402a
C405a 35V47
R411a 1.8K
C407a 0.04 25V
R415a 100ohm 1/2W
R417a 0.33ohm 3W
L 401a
R409a 22K
C406a 33P
330ohm(B) VR402a
R410a 680ohm
Q404a
R414a 100ohm 1/2W
R416a 0.33ohm 3W
R418a 10ohm 1W
C410a 0.039
R425a 330K
C402a 220P
R402a 22K
C403a 16V100
R413a 47
Q406a 2SA965
Q408a 2SB686
R419a 10ohm 1W
R404a 560
R405a 820
Q403a 2SC2229
R426a 47ohm
C411a 50V 47
R420a ※100ohm 1/2W
C412a 50V1u
C413a 50V 0.04
F002a
F002b
SW502a
SW501a
SW502b SW501b
R003 560ohm1W
R004 560ohm1W
PHONE
R424 4.7K1W
LED
+37.5V
-37.5V
-46V
S3V40×4
D403 D404 D405 D406
C419 0.01
RED
BLACK
RED
BLUE
BLUE
R001 4.7K1W
R002 4.7K 1W
C001 50V 6800u
C002 50V 6800u
F401
D402 1N4003
100ohm 1/2W ※R421
C418 100P
Q409 2SA836
C414 0.01
C415 50V 220
C416 50V 220
R422 10K
R423 1K
C417 50V 220
LINE VOLTAGE SELECTOR
SW001a
C003 2200P×2
C004
SW001b
F001
UNSWITCHED
SWITCHED
P-2250
RIFA 2200P×2
P-2251
LINE 50/60Hz
2200P C003
SW001
120V BLUE
100V GREEN
0V BLACK
P-2271

Note:

SW 101	PHONO	INPUT SELECTOR
SW 102	TUNER	INPUT SELECTOR
SW 103	AUX	INPUT SELECTOR
SW 104	MONITOR	
SW 105	MONITOR 1, 2	
SW 106	DUBBING 1→2	
SW 107	DUBBING 2→1	
SW 108	SUBSONIC	
SW 109	HIGH CUT	
SW 110	MODE	
SW 111	LOUDNESS	

SW 001	POWER SW
SW 501	SPEAKER A.
SW 502	SPEAKER B.

※----FLEME PROOF TYPE

	J	U	S	E
F001	3A	3A	1A Ⓣ	3A/1.5A
F002 a.b	3A	3A	—	3A
F401	0.5A	0.5A	100mA Ⓣ	0.5A
DC FUSE	—	—	1.6A Ⓣ	—